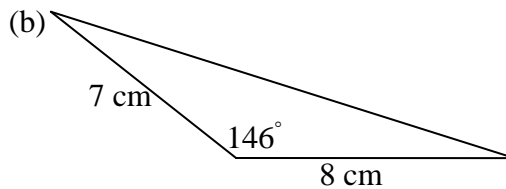
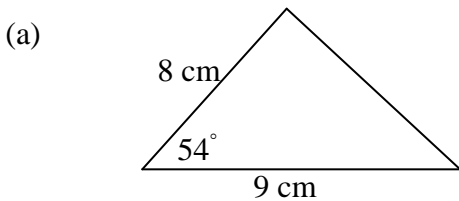


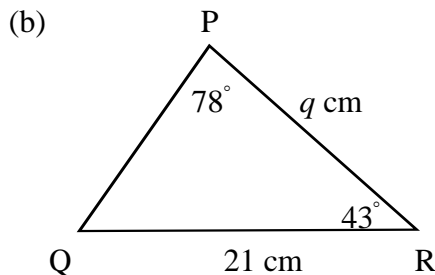
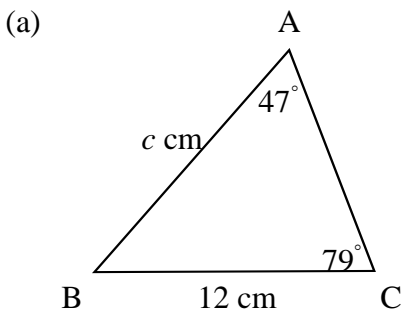
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Homework AP1

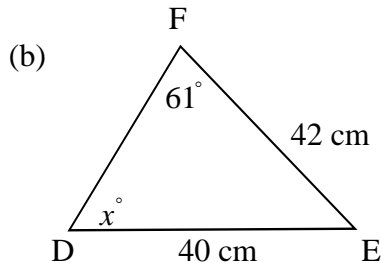
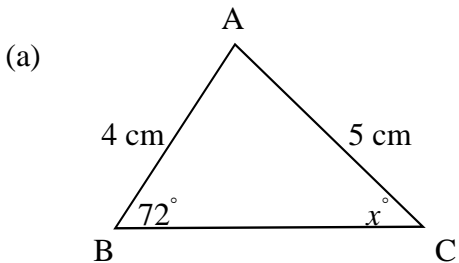
1. Find the area of each of these triangles.



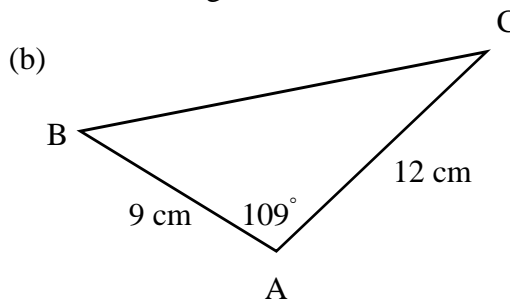
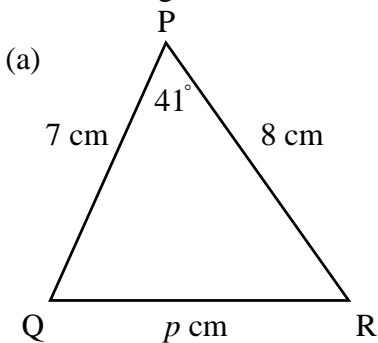
2. Use the sine rule to find the length of the marked sides in each of these triangles.



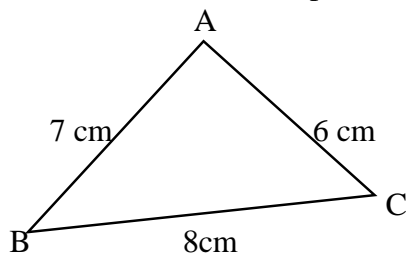
3. Use the sine rule to find the size of the marked angles in each of these triangles.



4. Find the length of the third side in each of these triangles:

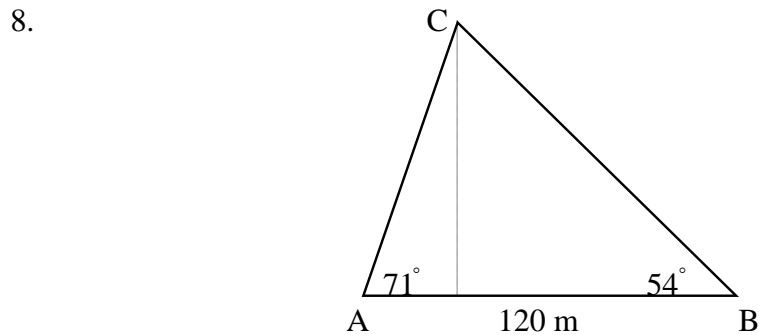


5. Find the size of all three angles in the triangle sketched below.
Give your answers correct to one decimal place.

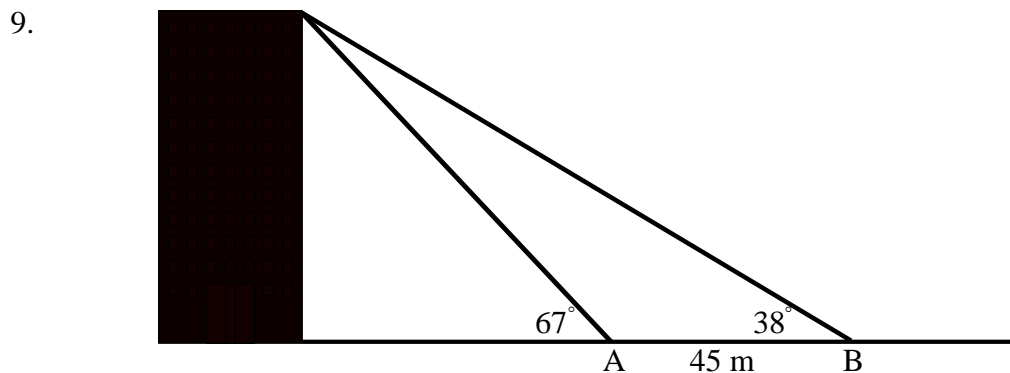


6. Triangle EFG has $EF = 10.3$ cm, $FG = 12.5$ cm and $GE = 17.5$ cm.
Find the size of the largest angle.

7. Ships A and B leave port P at the same time.
Ship A sails on a bearing of 047° at a speed of 12 km per hour.
Ship B sails on a bearing of 149° at a speed of 15 km per hour.
How far apart are the ships after 1 hour?



- (a) $AB = 120$ m. Calculate the length of AC.
(b) Hence calculate the length of the altitude from C.



AB has length 45 metres and the angles of elevation from A and B to the top of the building are as indicated.
Calculate the height of the building.

10. In the triangle sketched below,
(a) Calculate the length of AB.
(b) Calculate the area of the triangle.

